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ABSTRACT OF THE DISCLOSURE

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3 A method of simulating and optimizing qualification testing of lubricating oil
4 products, the method including: passing a plurality of lubricating oil product
5 characteristics to a simulator engine, where the simulator engine includes
6 a plurality of simulated qualification tests and processing the lubricating oil
7 product characteristics in one or more of the simulated qualification tests,
8 where the output of each simulated qualification test includes a probability
9 of passing indicator for indicating the probability that a lubricating oil
10 product have the inputted characteristics would pass an actual
11 qualification test; passing an input of the plurality of lubricating oil product
12 characteristics, the probability of passing indicator from each simulated
13 qualification test, and a proposed test sequence of a plurality of
14 qualification tests to a strategy simulator engine and processing the input
15 to determine a probability of passing indicator, cost and time duration of
16 the proposed test sequence.